



Ka-Band Experiments

JPL

• Overall Objective

- Achieve a 2 to 4 fold increase in deep space communications using Ka-band (32 GHz) on existing DSN antennas

• Goals and Products

- Launch and operate a low cost Ka-band downlink on MGS and DS-1
- Conduct tracking, telemetry and ranging using DSS 13 and other DSN antennas
- Conduct antenna efficiency measurements at DSS-13 using radio sources and spacecraft signal.
- Acquire, analyze and provide data useful for future mission planning

